

FIG. 1

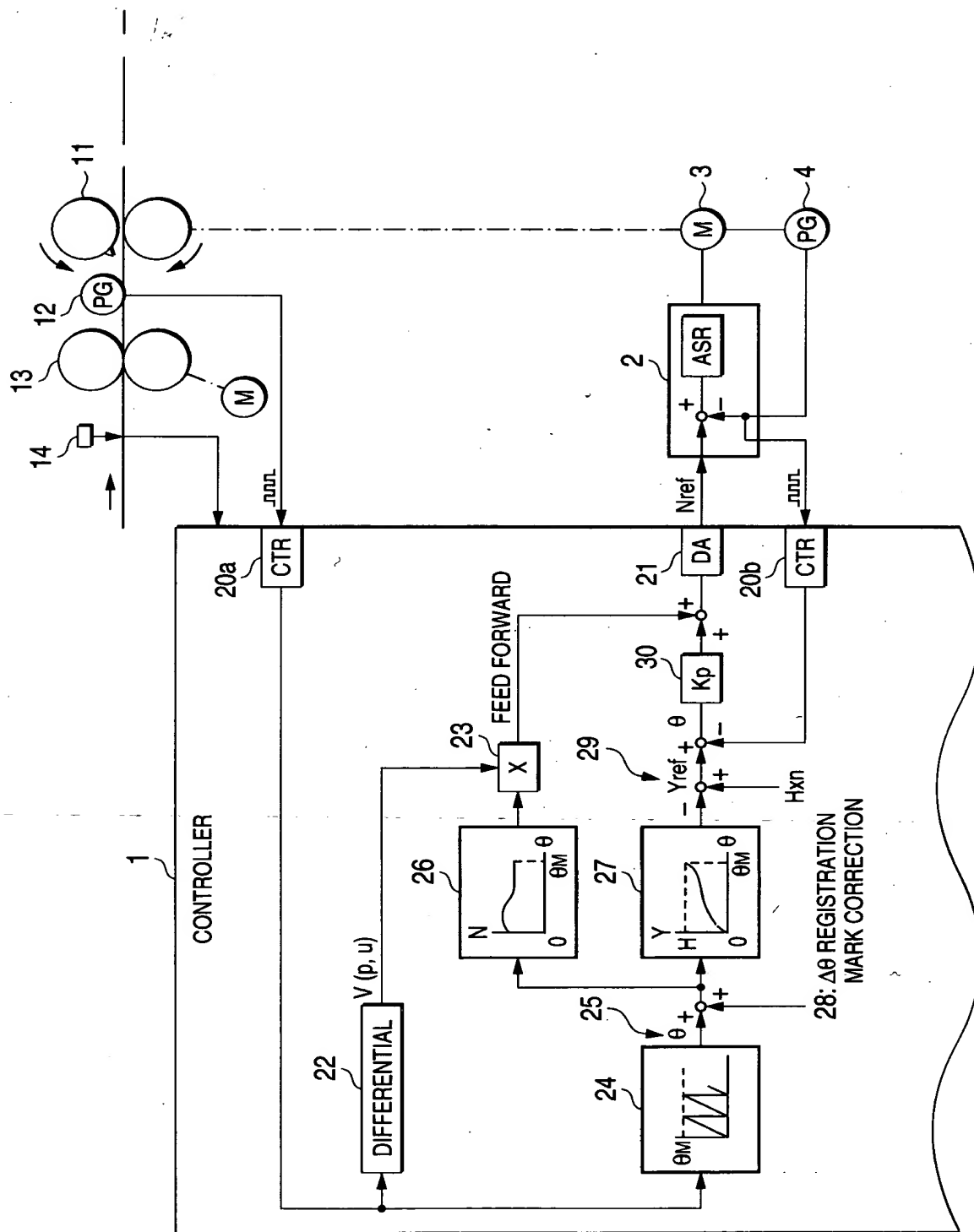


FIG. 2

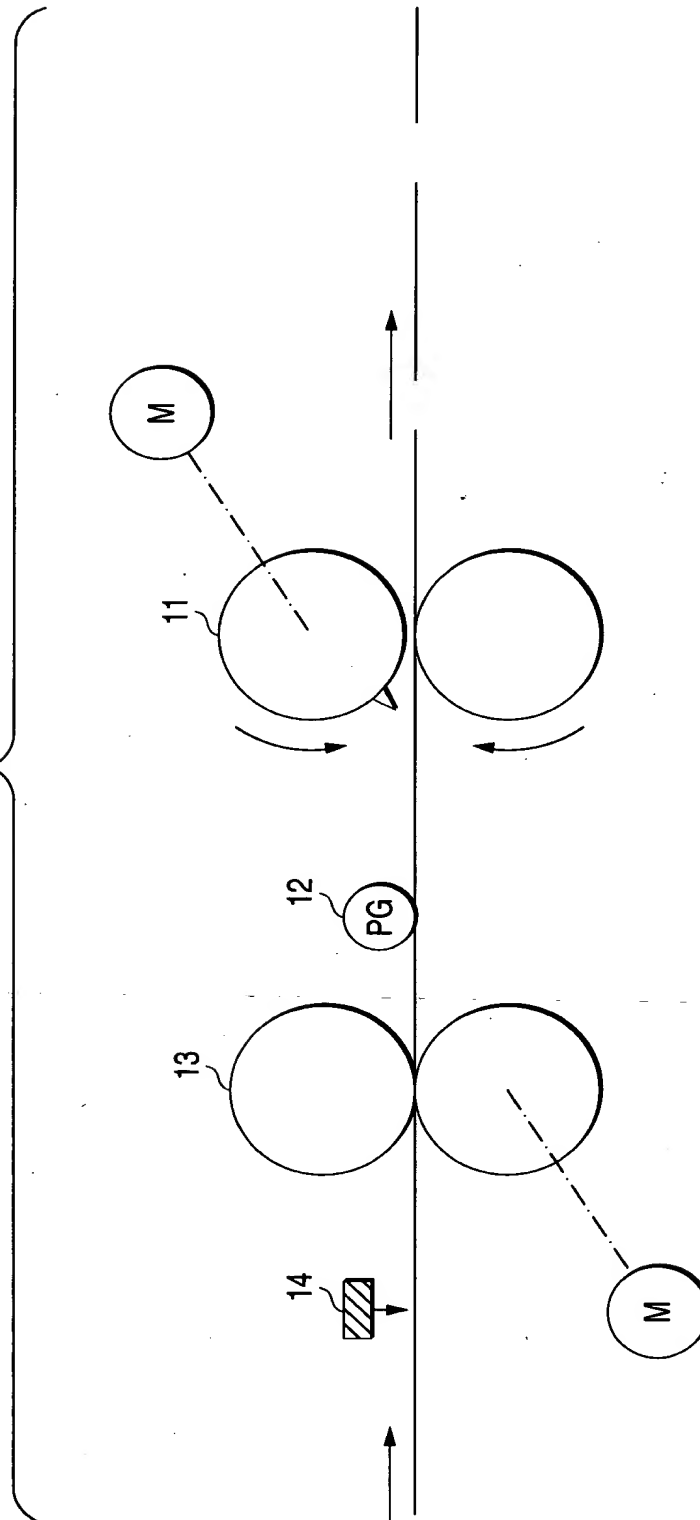


FIG. 3A

STRAIGHT BLADE

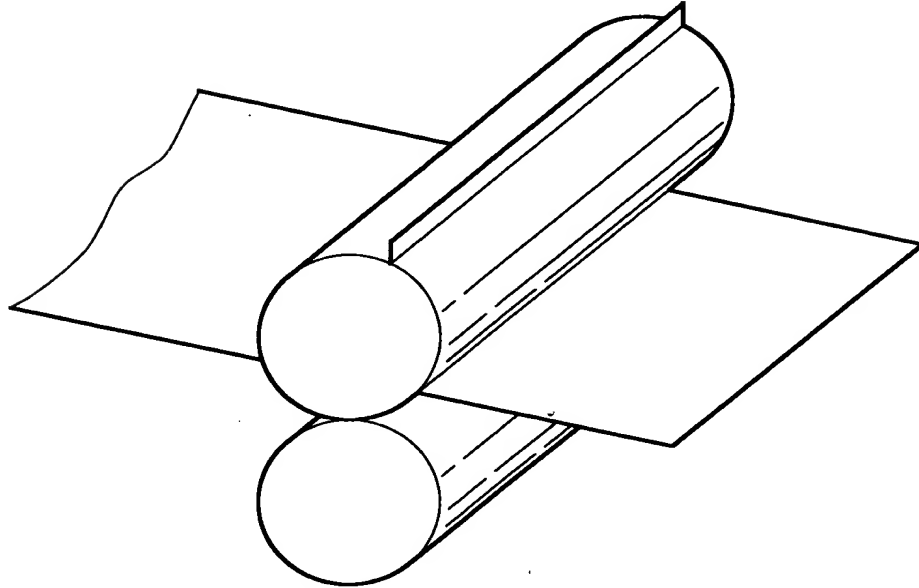


FIG. 3B

SPIRAL BLADE

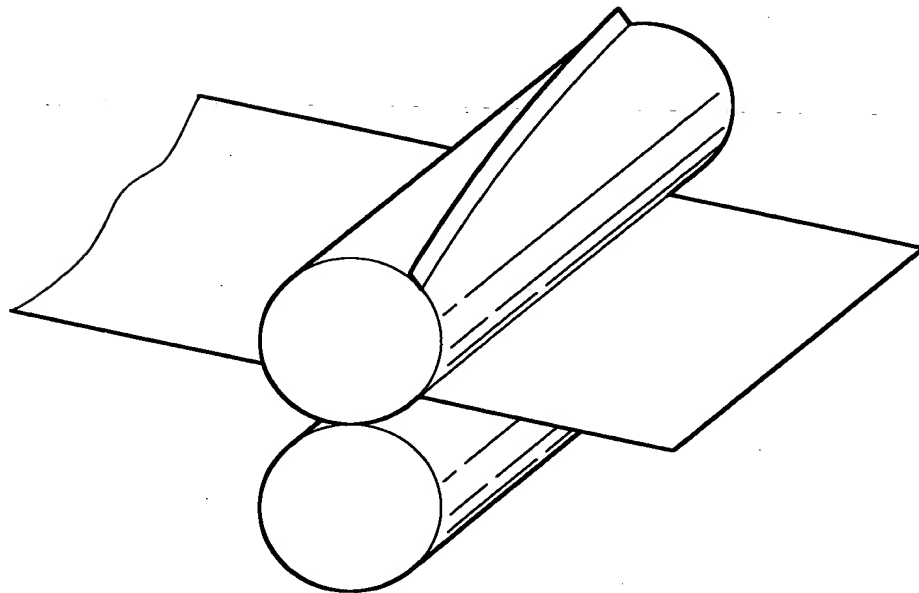


FIG. 4A

SINGLE BLADE

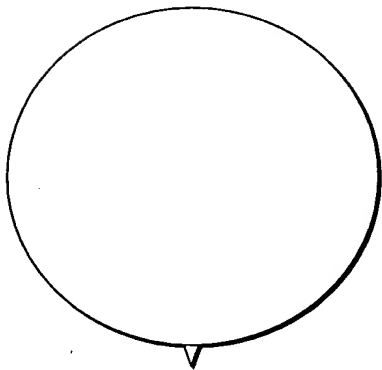


FIG. 4B

DOUBLE BLADE

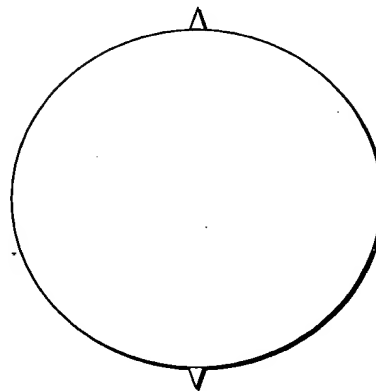


FIG. 4C

TRIPLE BLADE

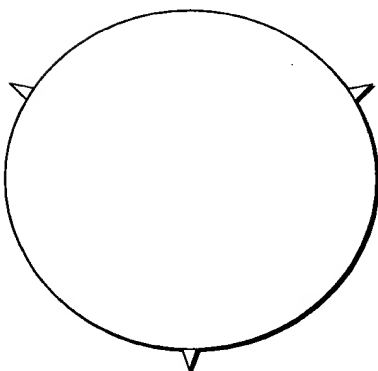


FIG. 4D

QUADRUPLE BLADE

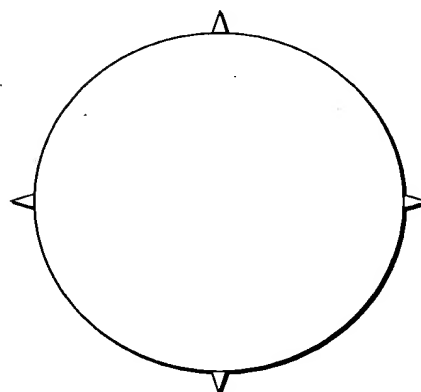
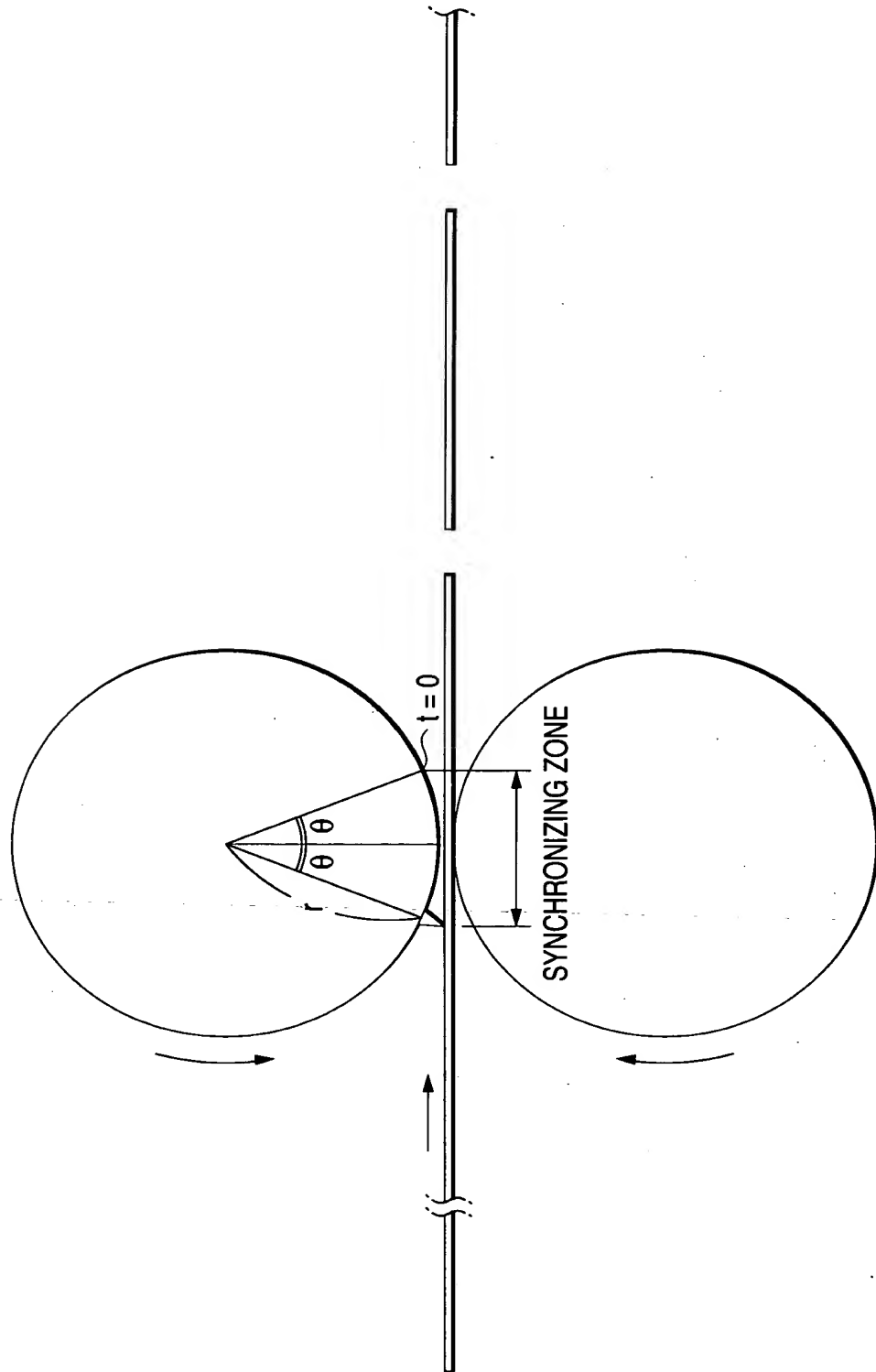


FIG. 5



[CASE OF SPIRAL BLADE]

FIG. 6A

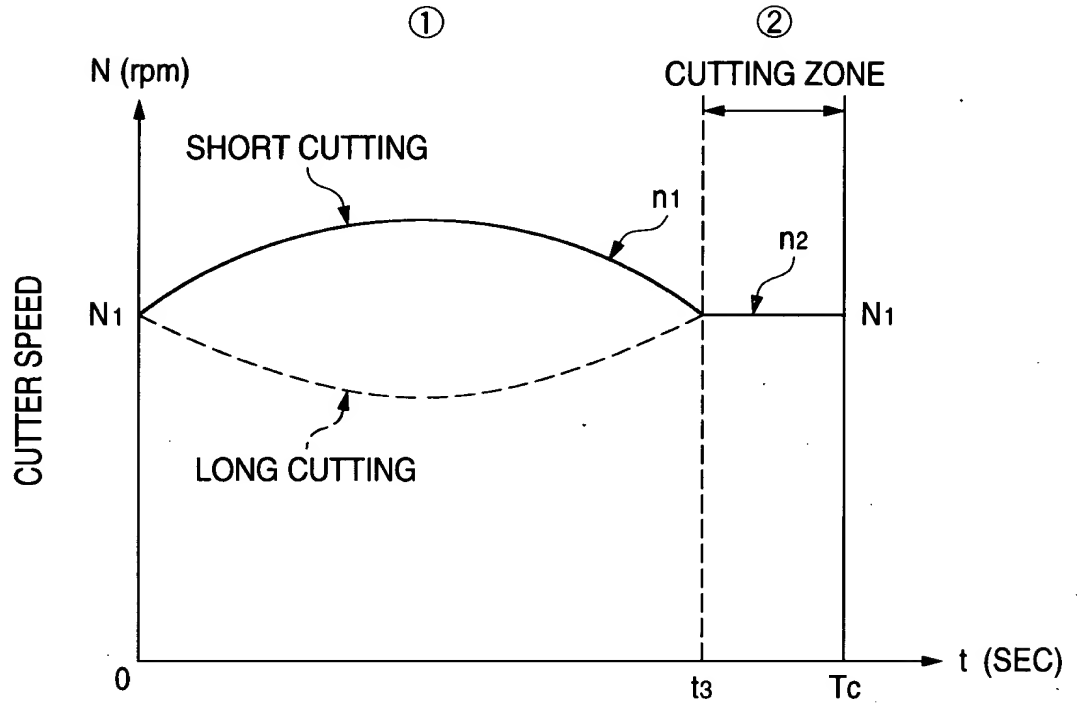


FIG. 6B

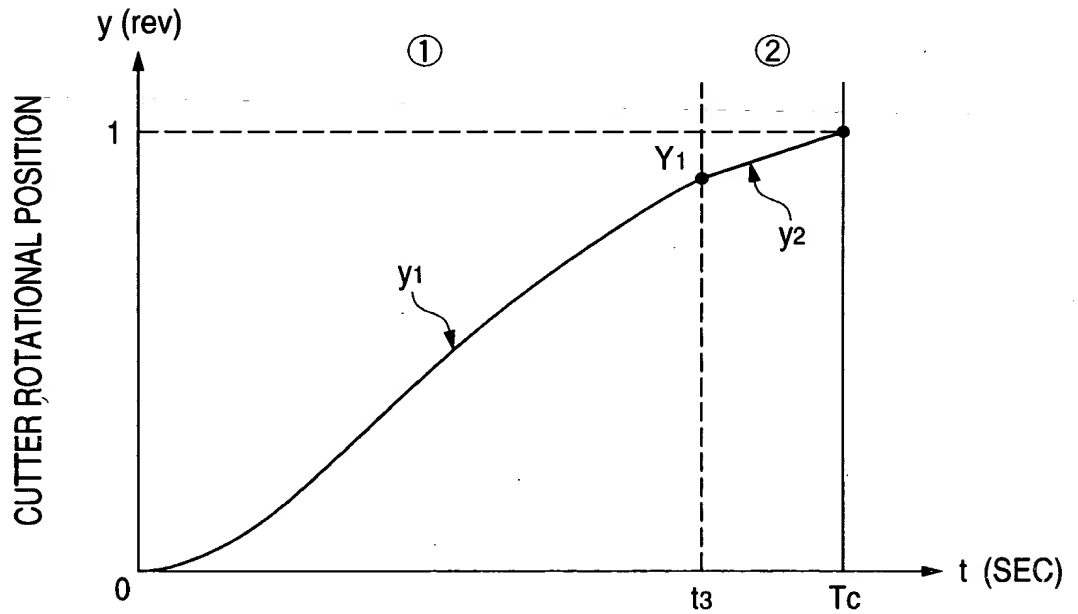


FIG. 7A

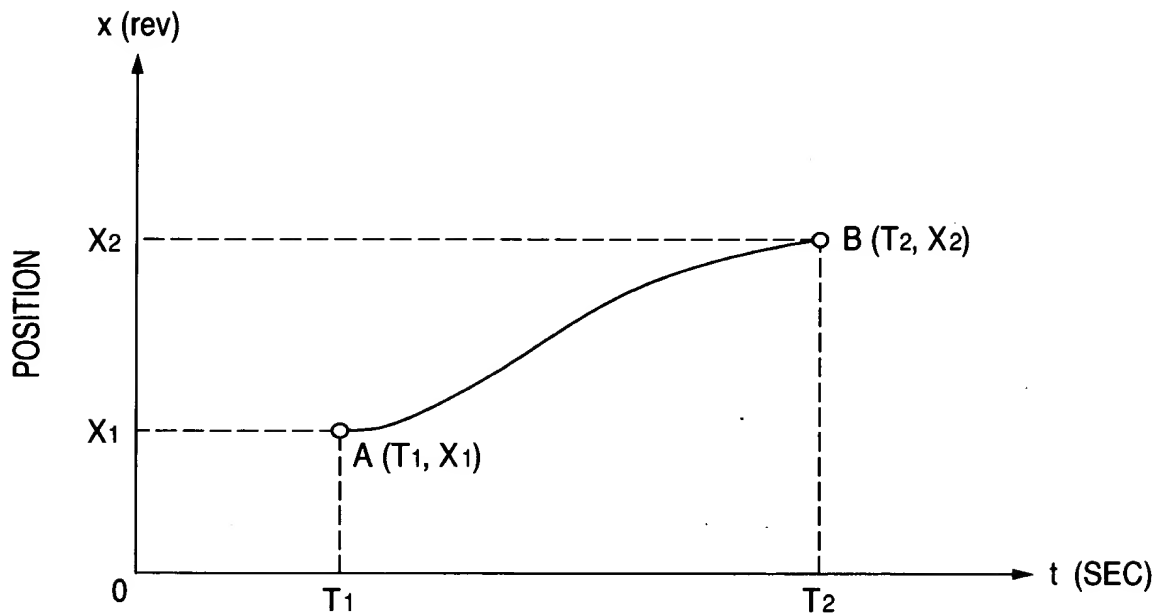
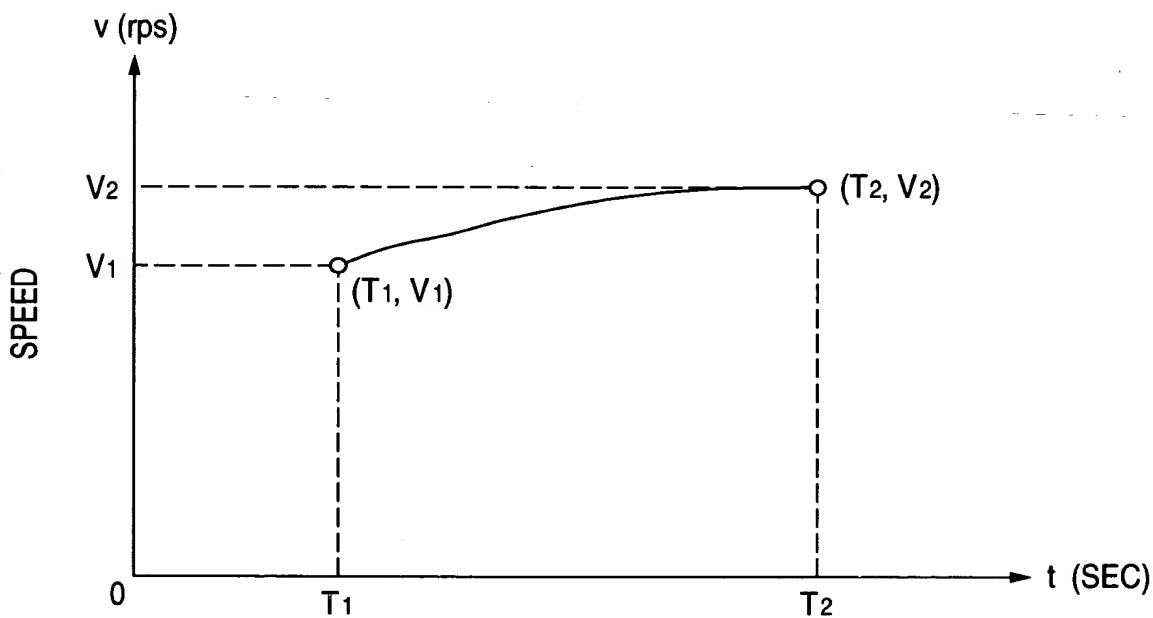


FIG. 7B



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FIG. 8

(CAM CURVE EQUATIONS OF SPIRAL BLADE)

ZONE	CUTTER ROTATIONAL SPEED n (rpm)	CUTTER ROTATIONAL POSITION y (rev)
①	$n_1 = 60 (3At^2 + 2Bt + C)$	$y_1 = At^3 + Bt^2 + Ct + D$
②	$n_2 = N_1$	$y_2 = \frac{(1 - Y_1)}{(T_c - t_3)} (t - T_c) + 1$

[CASE OF STRAIGHT BLADE]

FIG. 9A

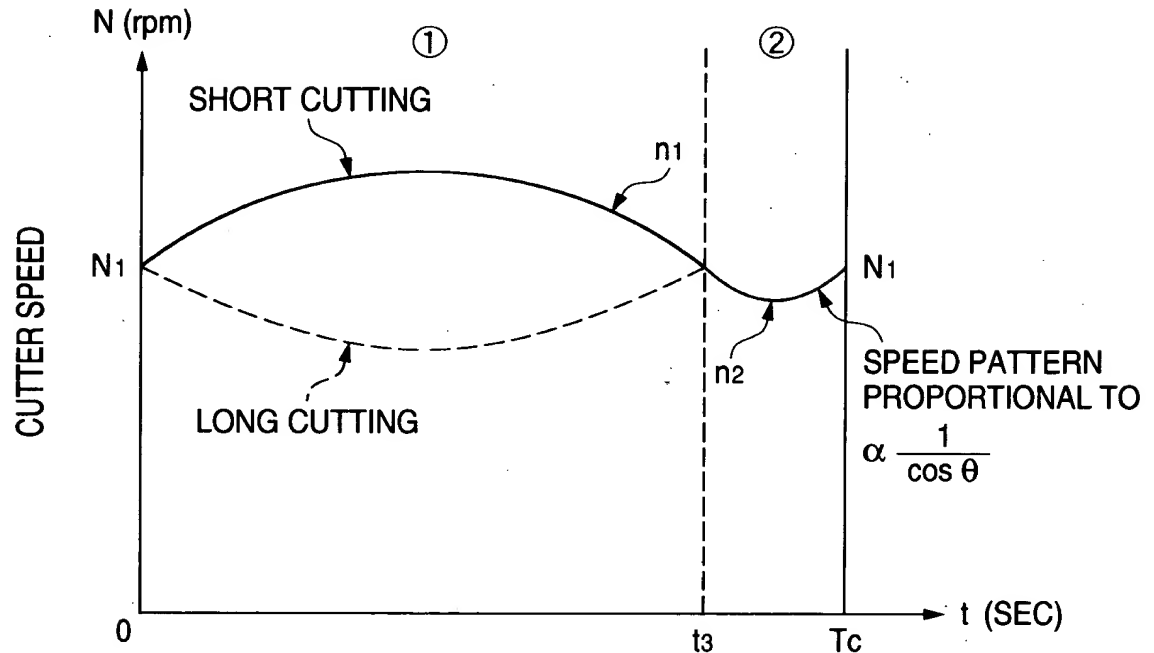


FIG. 9B

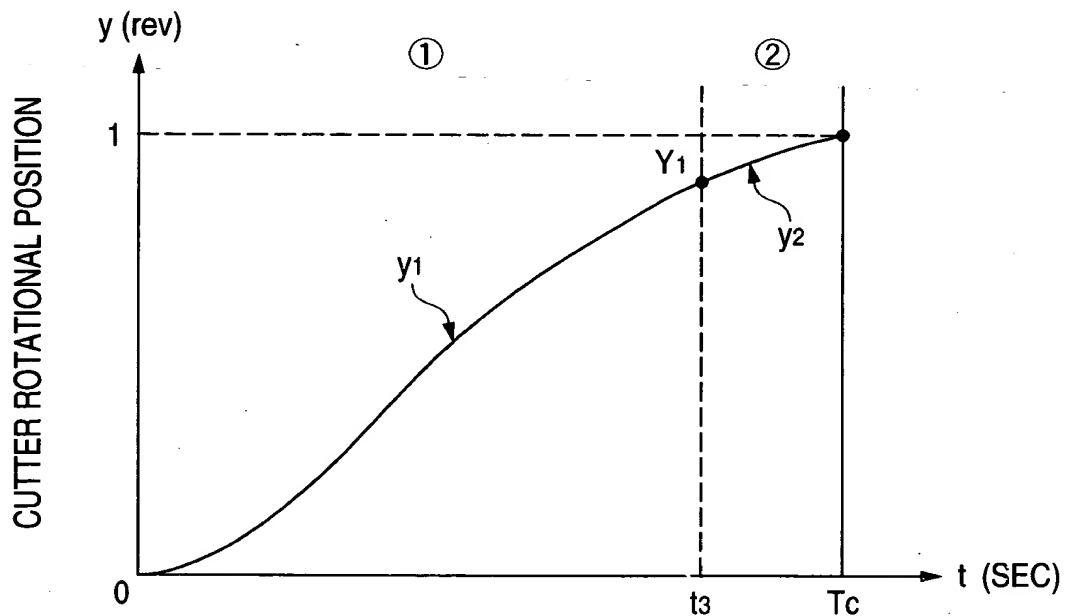


FIG. 10

(CAM CURVE EQUATIONS OF STRAIGHT BLADE)

ZONE	CUTTER ROTATIONAL SPEED n (rpm)	CUTTER ROTATIONAL POSITION y (rev)
①	$n_1 = 60 (3At^2 + 2Bt + C)$	$y_1 = At^3 + Bt^2 + Ct + D$
②	$n_2 = \frac{60}{2\pi \sqrt{\left(\frac{r}{V_0}\right)^2 - \left(t - \frac{t_3 + T_c}{2}\right)^2}}$	$y_2 = \frac{1}{360} \sin^{-1} \left\{ \left(\frac{V_0}{r} \right) \left(t - \frac{t_3 + T_c}{2} \right) \right\} + G$ $\left(G = 1 - \frac{\theta_0}{360} \right)$ <p>(UNIT OF $\sin^{-1} x$: $^\circ$)</p>

FIG. 11A

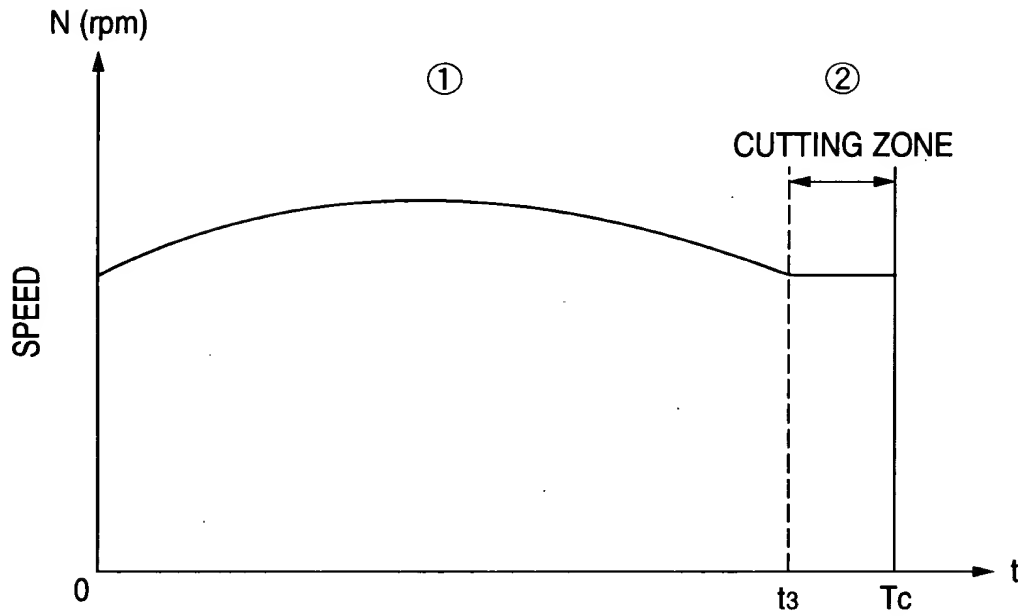


FIG. 11B

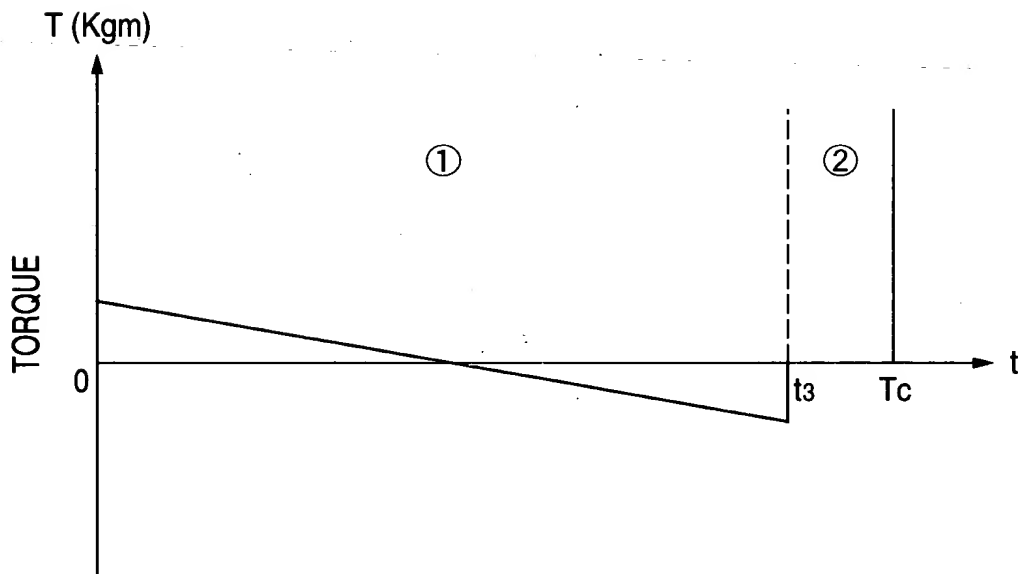


FIG. 12A

[SPEED PATTERN OF QUADRATIC FUNCTION WAVEFORM]
 N (ABSOLUTE NUMBER)

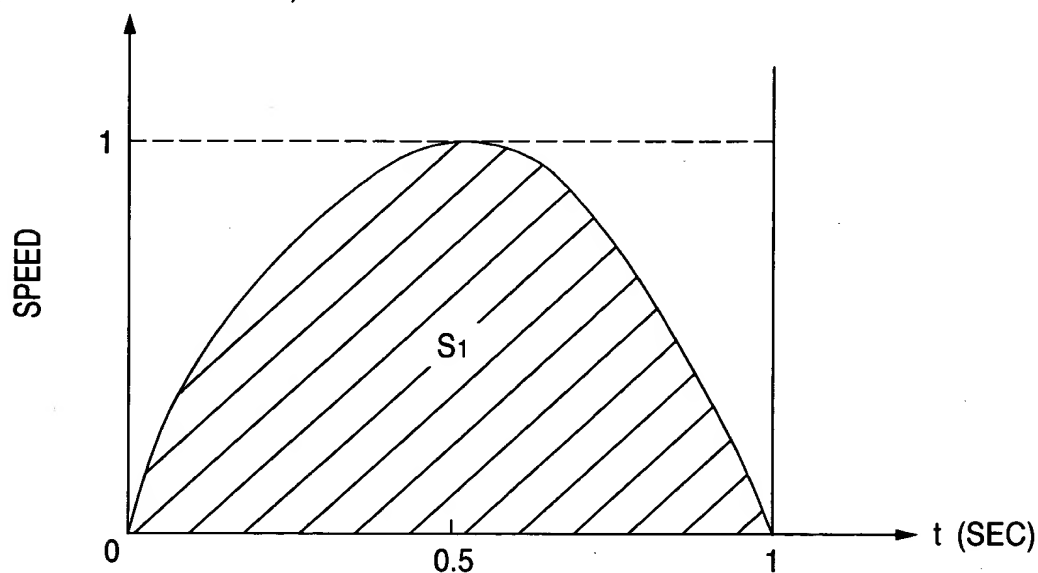


FIG. 12B

[SPEED PATTERN OF TRAPEZOIDAL WAVEFORM]
 N (ABSOLUTE NUMBER)

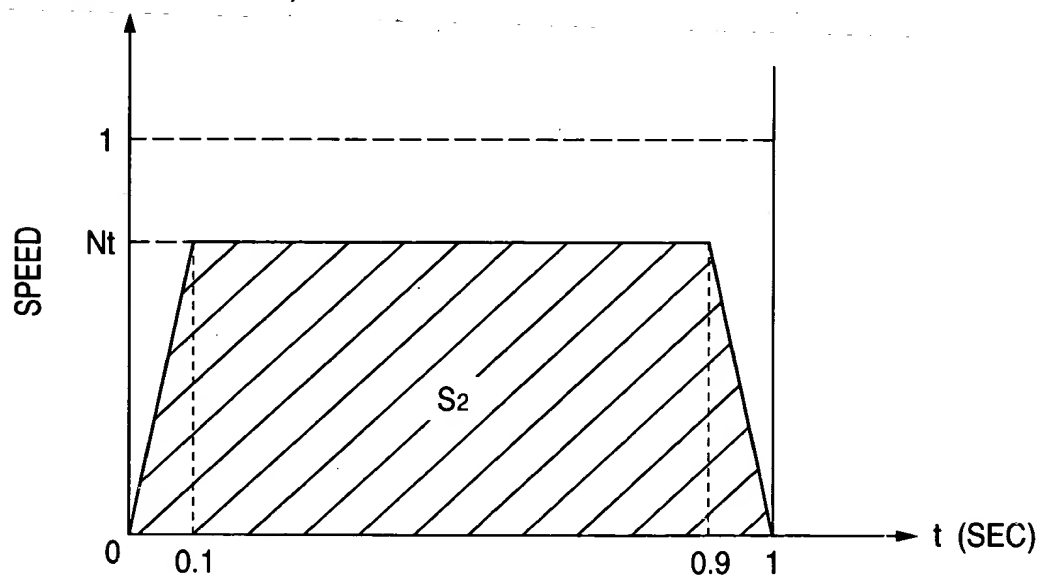


FIG. 13A

[SPEED PATTERN OF GENERALIZED TRAPEZOIDAL WAVEFORM]

N (ABSOLUTE NUMBER)

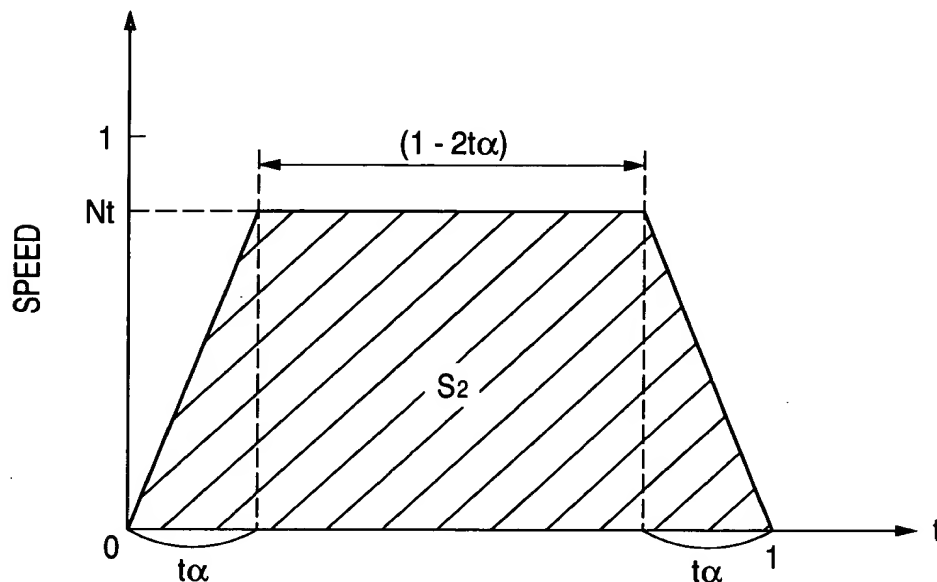
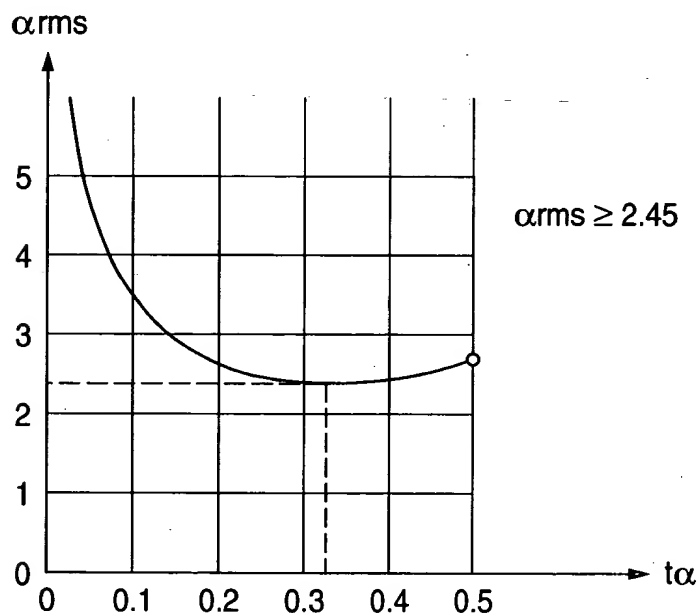


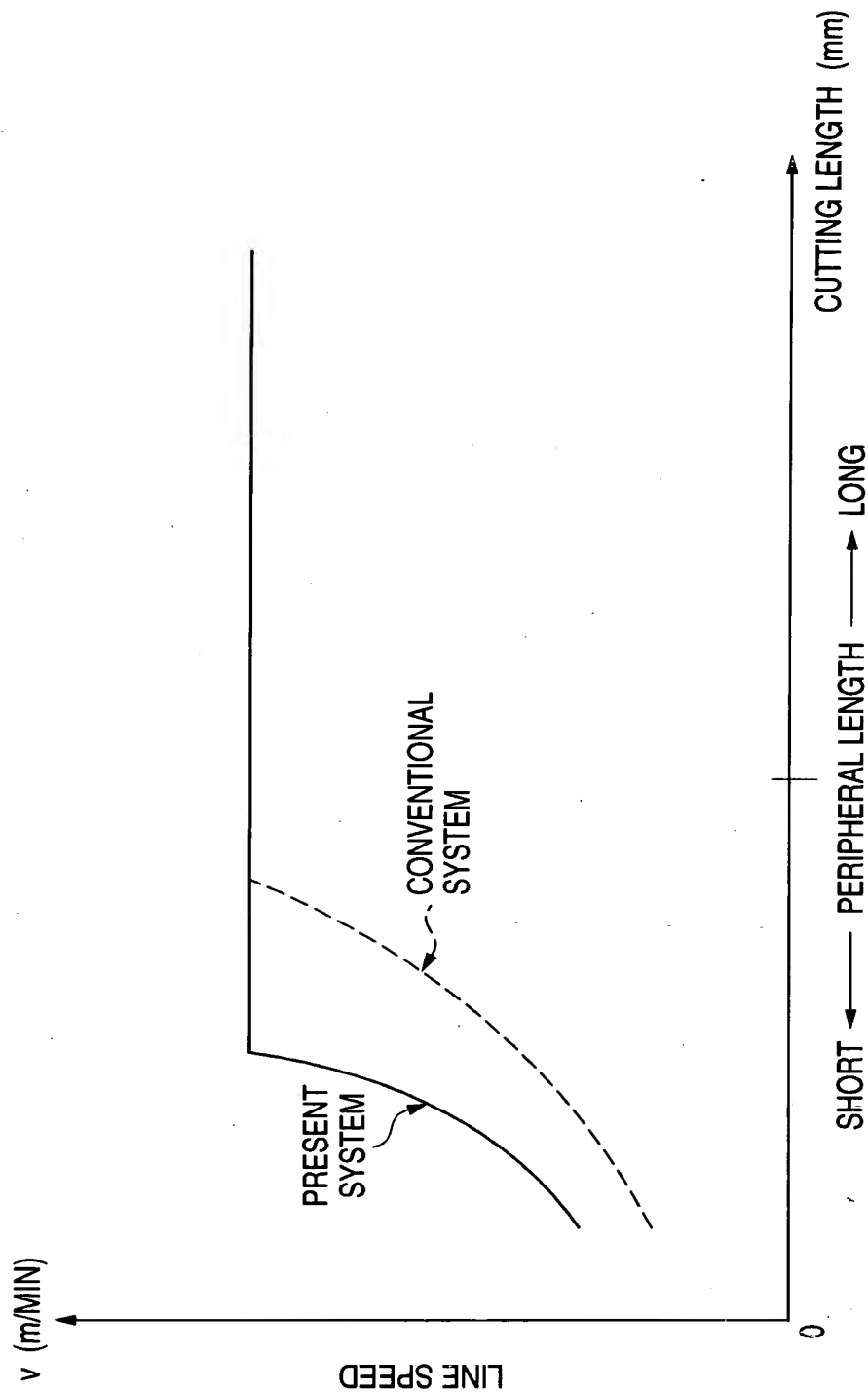
FIG. 13B



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FIG. 14

LV CURVE



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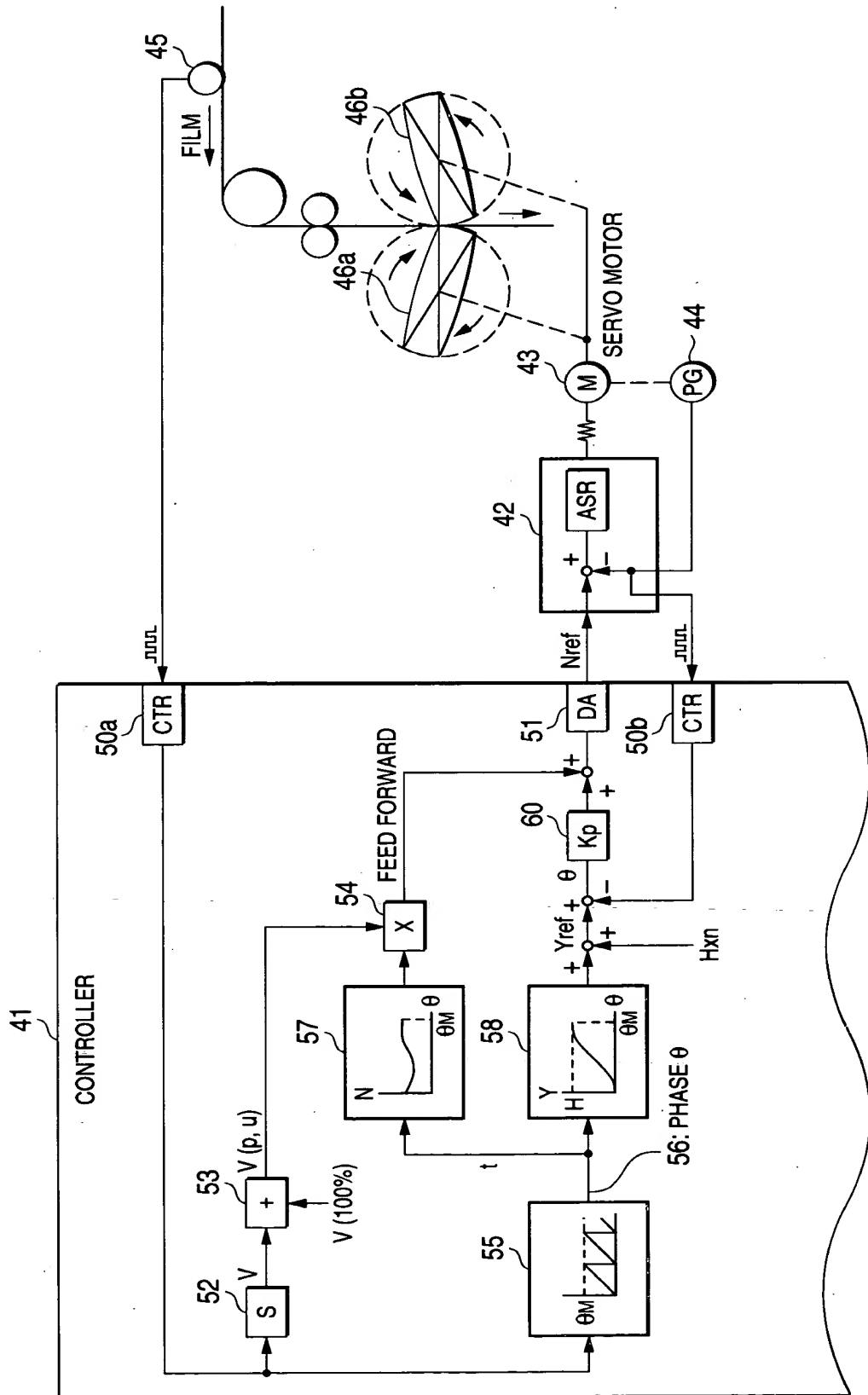


FIG. 16A

[SINGLE HEATER LATERAL SEALING MECHANISM]

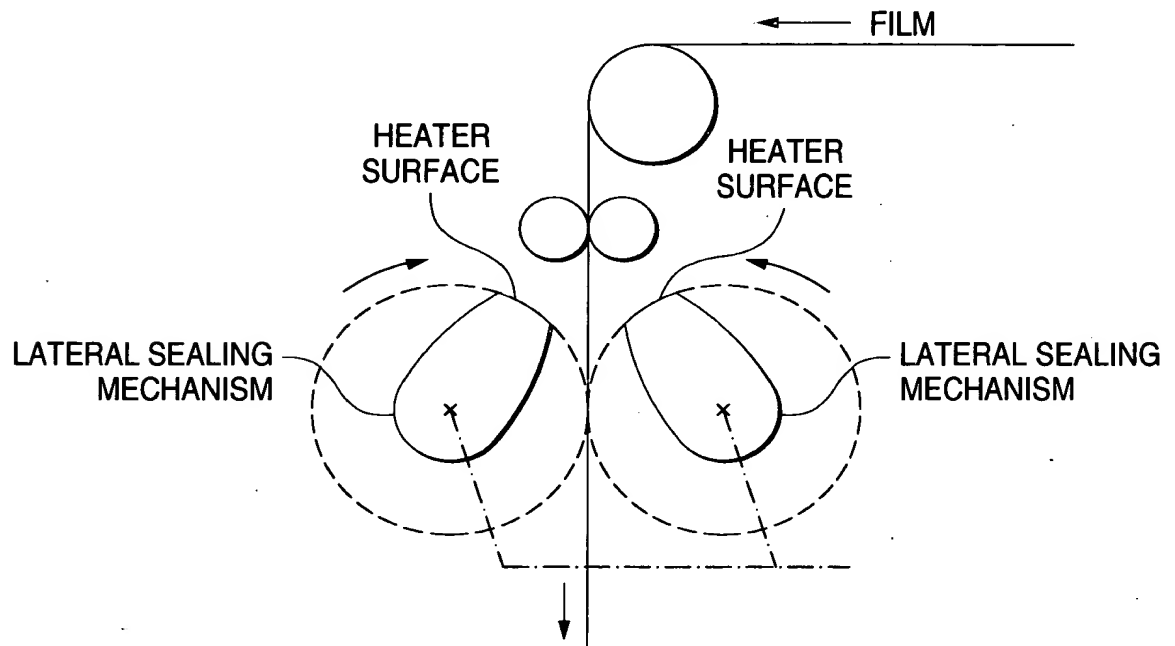


FIG. 16B

[DOUBLE HEATER LATERAL SEALING MECHANISM]

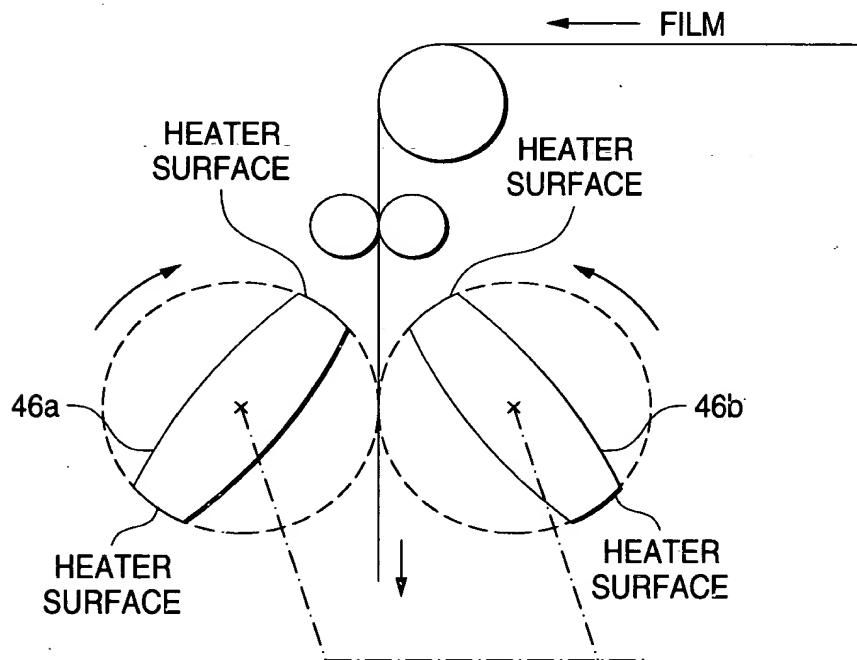


FIG. 17

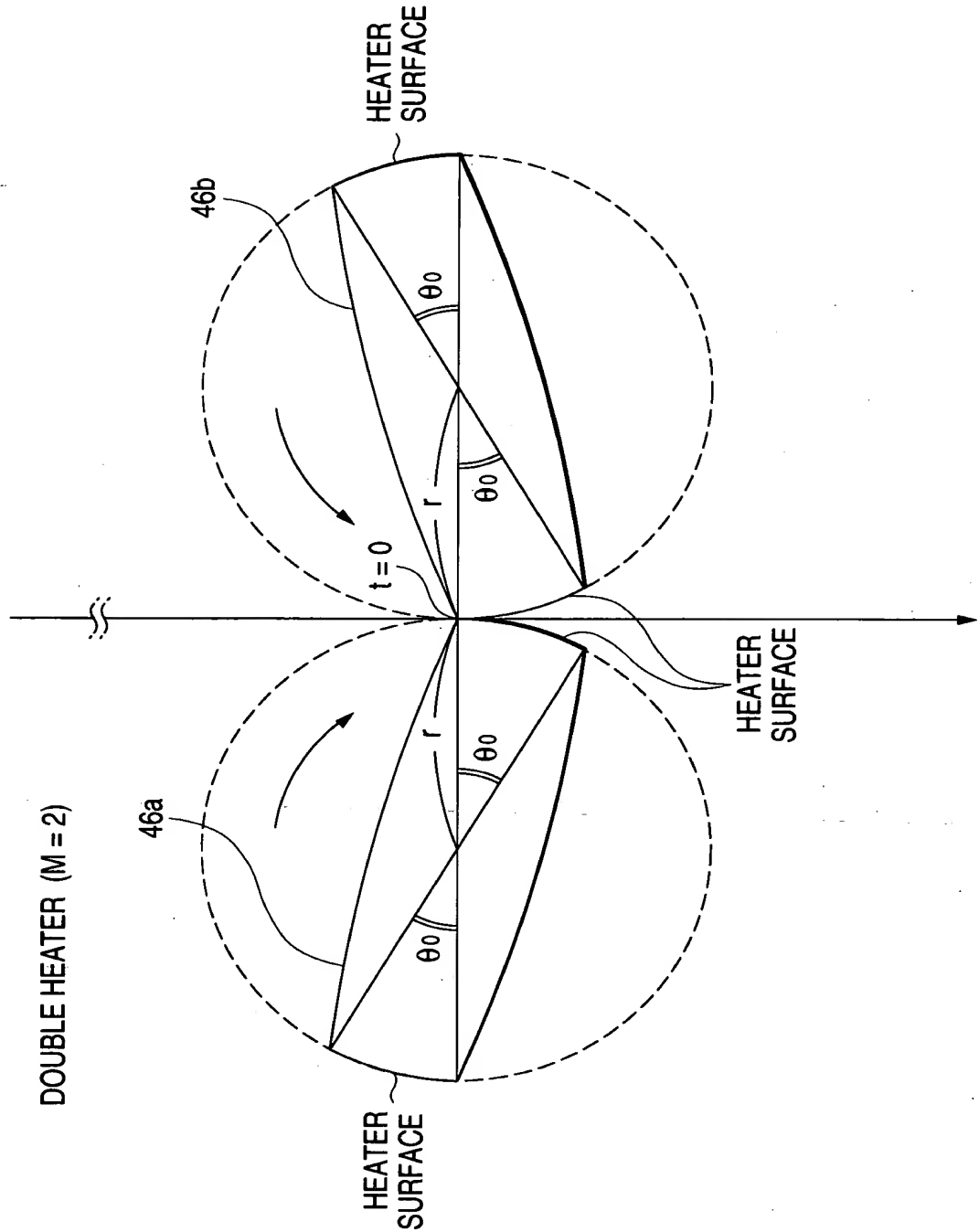


FIG. 18A

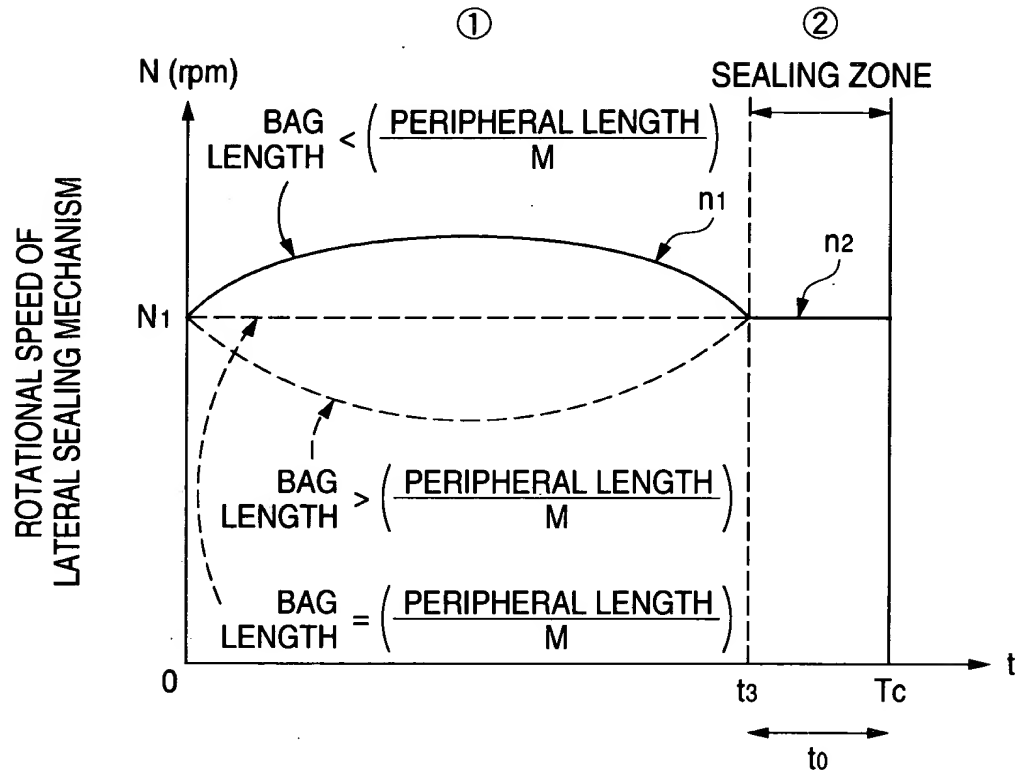


FIG. 18B

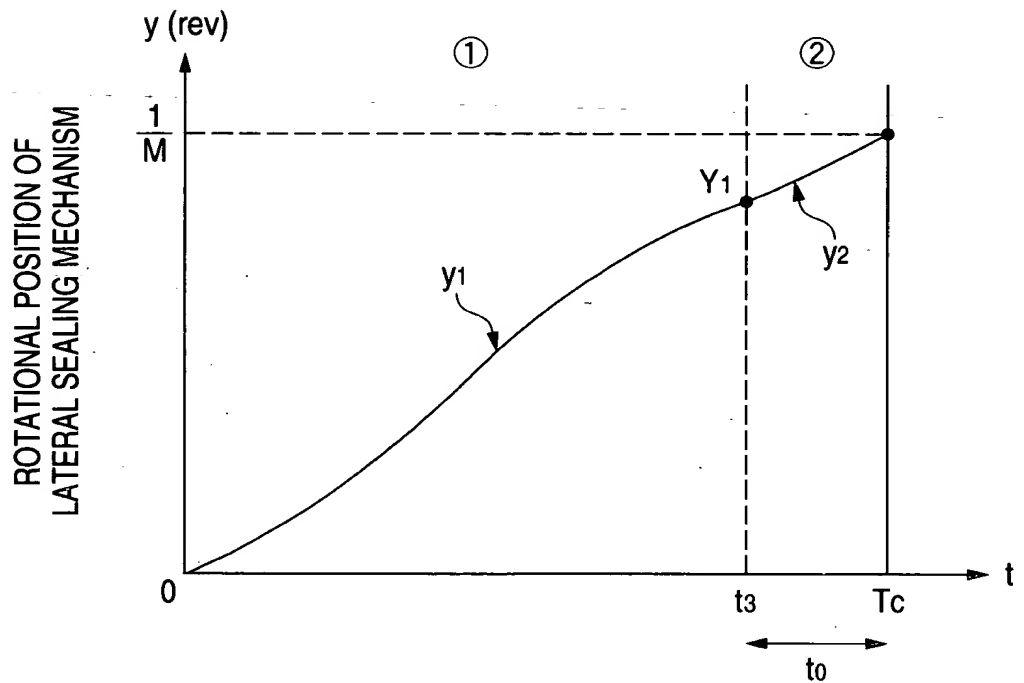


FIG. 19

ZONE	ROTATIONAL SPEED OF LATERAL SEALING MECHANISM n (rpm)	ROTATIONAL POSITION OF LATERAL SEALING MECHANISM y (rev)
① NON SEALING ZONE	$n1 = 60 (3At^2 + 2Bt + C)$	$y1 = At^3 + Bt^2 + Ct + D$
② SEALING ZONE	$n2 = N1 \cdot (\text{CONSTANT})$	$y2 = \frac{\frac{1}{M} - Y1}{Tc - t3} (t - Tc) + \frac{1}{M}$

FIG. 20

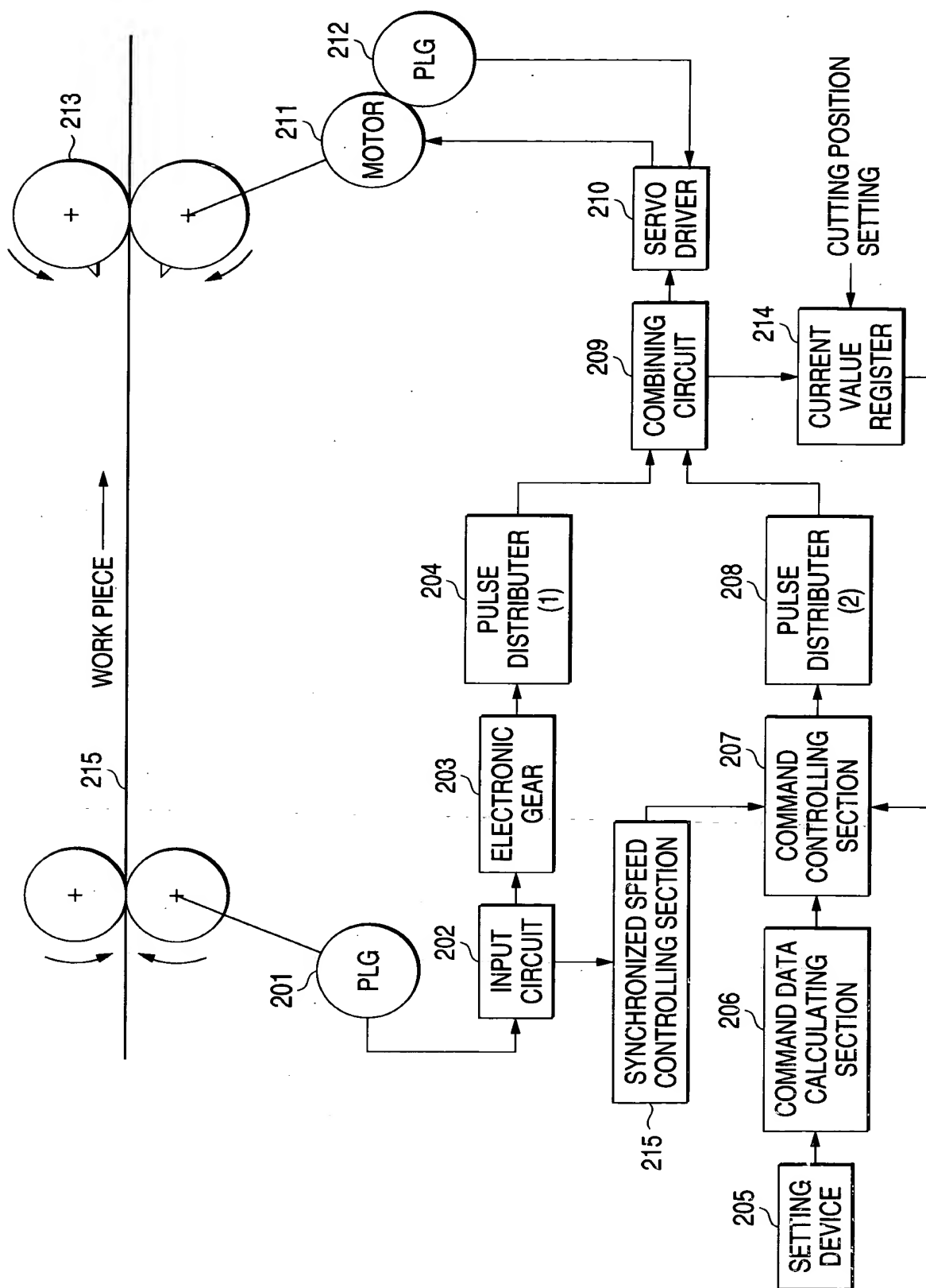


FIG. 21A

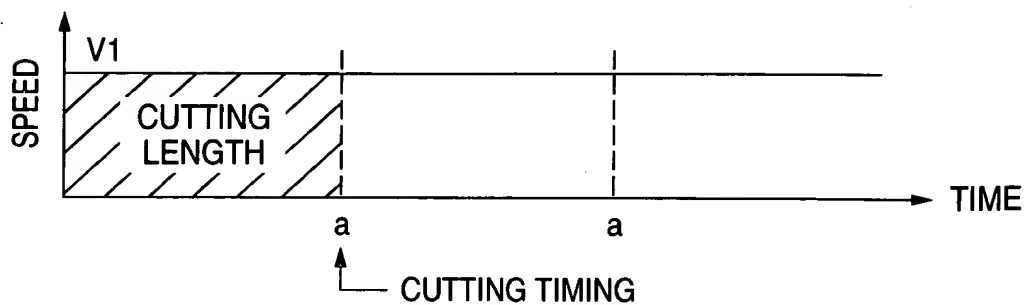


FIG. 21B

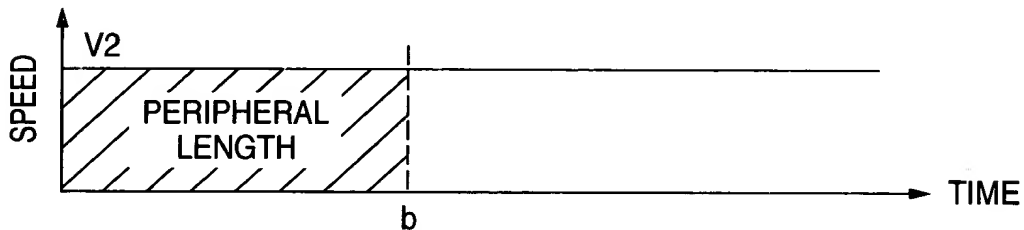


FIG. 21C

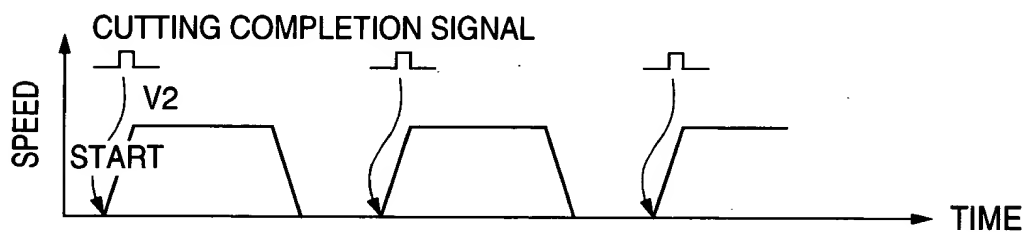


FIG. 21D

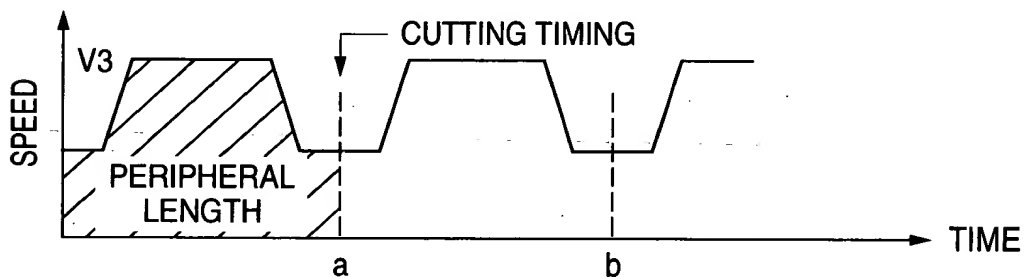


FIG. 21E

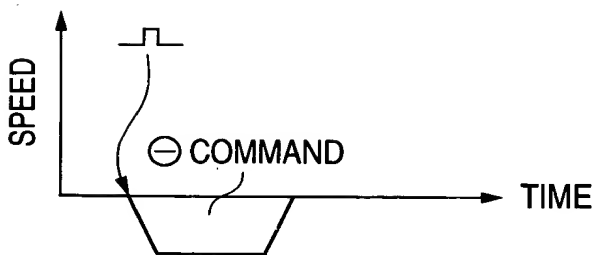


FIG. 21F

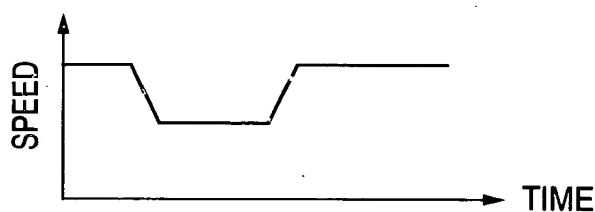


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FIG. 22

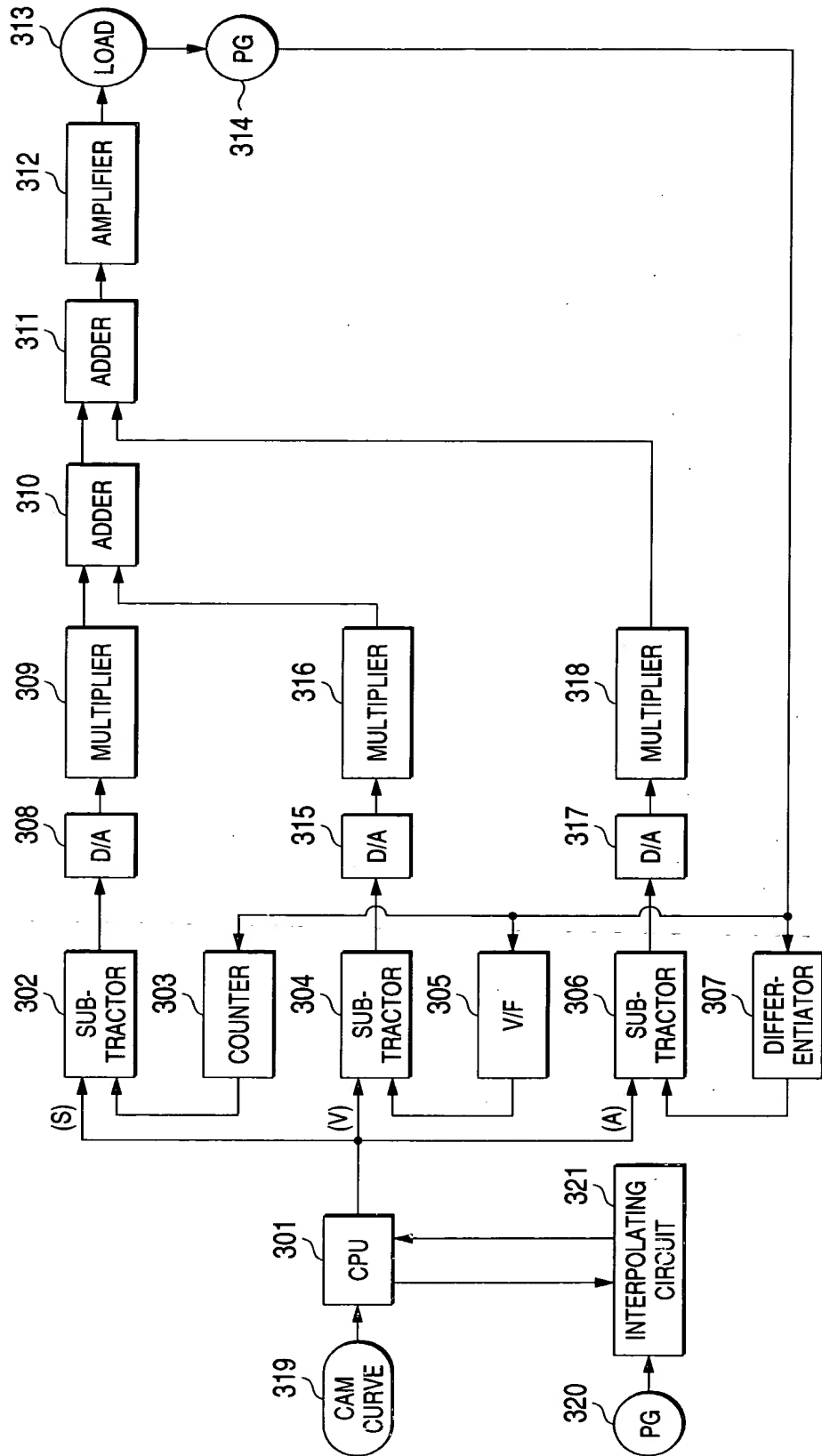
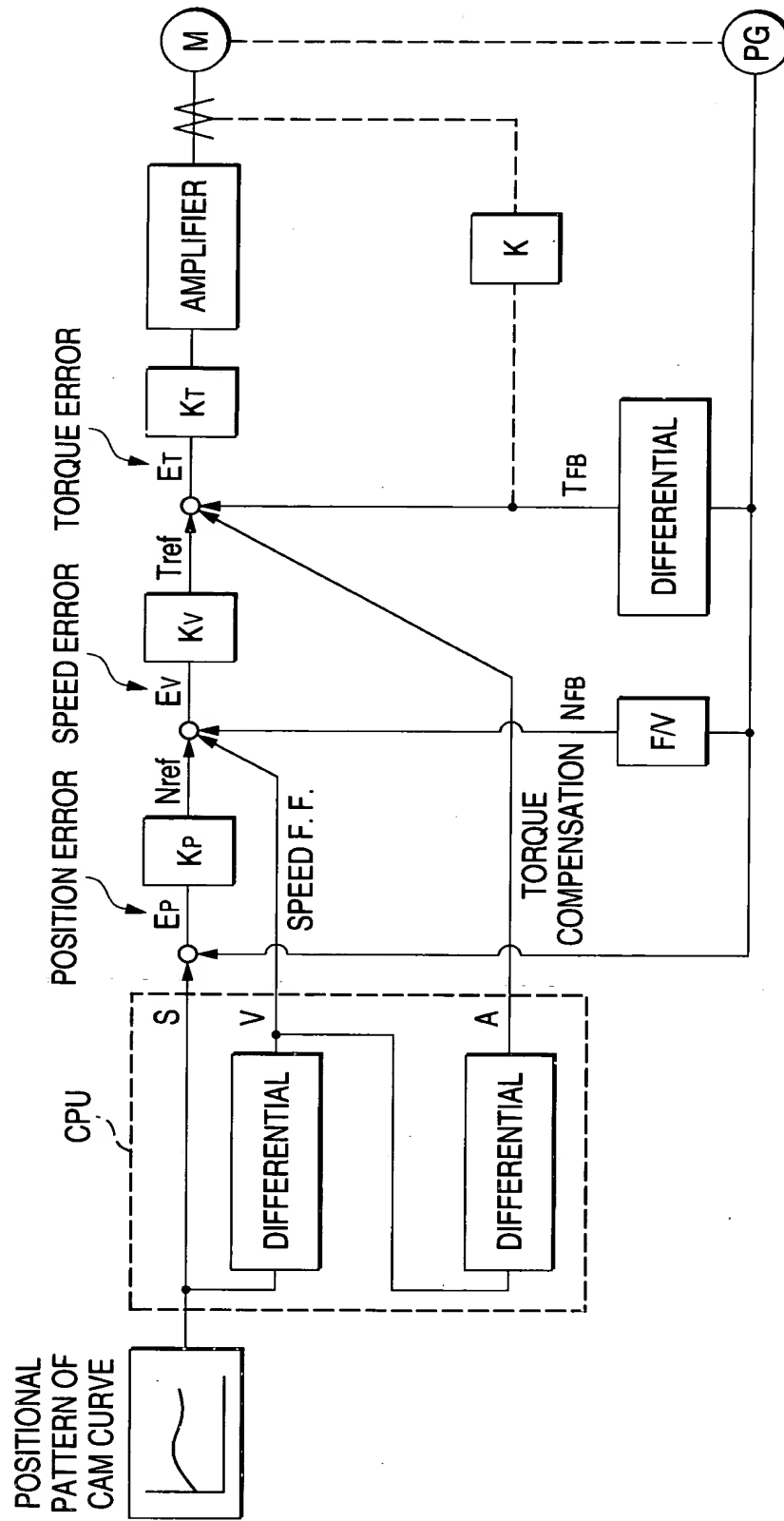


FIG. 23



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FIG. 24A

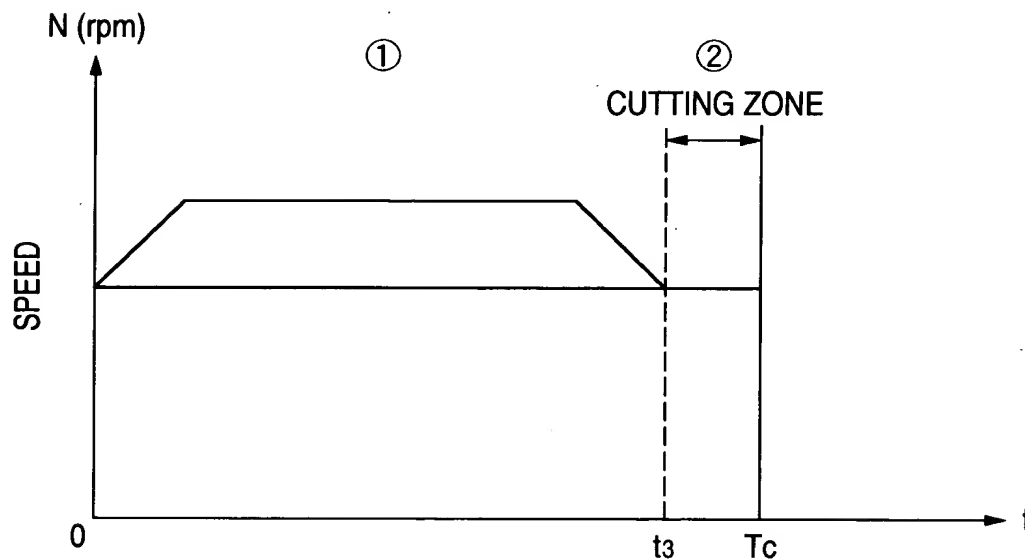


FIG. 24B

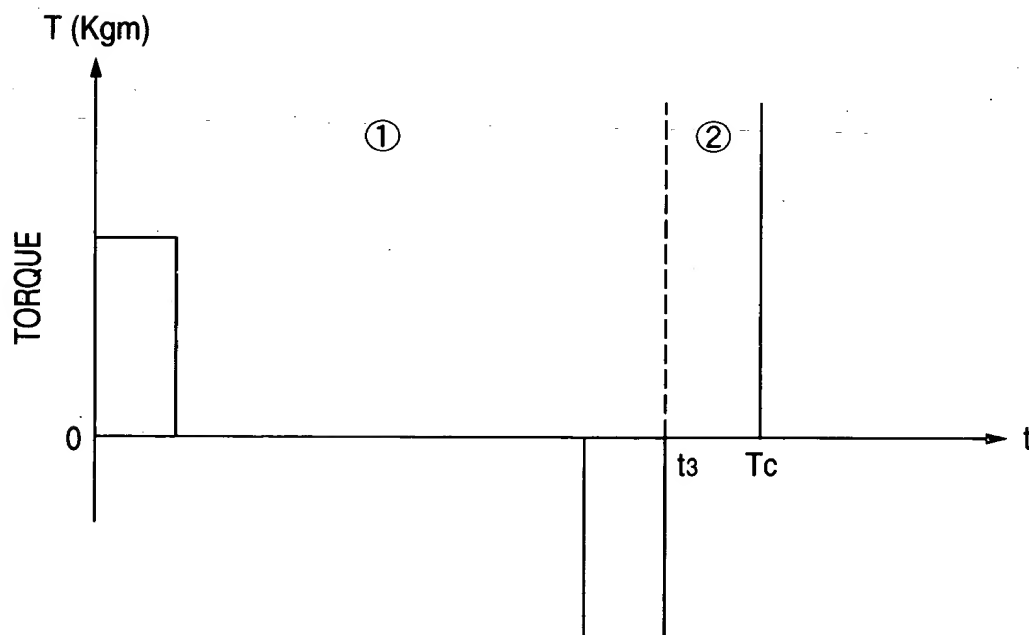


FIG. 24A